

REMARKS/ARGUMENTS

Claims 47, 49-52, 56, and 67 are amended; claims 54 and 58-63 are cancelled; claims 93-123 are new; and claims 47-53, 55-57, 64-68, 84-86, and 93-123 are pending, upon entry of this amendment. Support for the amendment can be found throughout the instant application, and as noted below. No new matter has been added.

Applicant notes that claims 47, 49-52, 56, and 67 are amended herein solely for readability issues which are unrelated to patentability.

Claim Rejections – 35 U.S.C. § 102(b)

Claims 54, and 58-63 are rejected under 35 U.S.C. 102(b) as allegedly being anticipated by Nayberg (U.S. Patent No. 4,581,692). The rejected claims have been cancelled without prejudice to renewal. Accordingly, the rejection no longer applies.

Allowable Claims

The Office Action has found claims 47-53, 55-57, 64-68 and 84-86 to be allowable. Applicant sincerely thanks the Examiner for allowing the noted claims.

New Claims

Support for the new claims may be found throughout the instant application, and, for example, as shown for the new claims noted below. New claims 93-108 derive patentability from allowable claims, and also recite novel and non-obvious claim limitations which are not taught or suggested by the prior art.

Due to the similarity between the new claims and the allowed claims, applicant believes that a new search is not required for further examination.

New Claim #	Exemplary support
93 (also 99, 106, 114)	<p>This claim corresponds to Fig. 7D.</p> <p>The high impedance referenced in the claim corresponds to the impedance that can be measured between the terminal of the inductive element that is connected to the first switch, and other parts of the circuit, <u>when the first switch is open</u>.</p> <p>When said first switch is open, the terminal that was connected to the first switch is left “floating”</p> <p>At page 27, the specification states that numerous possible variations of the circuit shown in Fig. are shown in Figs. 7A to 7L.</p> <p>Figs. 8A to 8C clearly show the relationship (and differences) between the claimed invention in its more general form and a voltage driven motor connected to a power supply.</p>
94 (also 101, 108, 115, 123)	<p>Supporting for <u>braking</u> is provided at page 58, lines 11-24; and page 44, line 24-30.</p> <p>Brushless DC motors in the patent specification are electronically driven, as the “electronic commutator” is implemented electronically (as its name indicates).</p> <p>See:</p> <ul style="list-style-type: none"> - Fig. 1, block 14, - Fig 2, block 22 “electronic commutator logic circuit”, - Fig 3, block 34, - Fig 4, block 45, - Fig 7I, block 7I6, - Fig 7k, block 7k10, - Fig 8A, block 89, - Fig 8B, block 89, - Fig 8C, block 89, - Fig 9C, block 9C5 - Fig 9D shows an implementation of the driving electronics of a brushless DC motor, and - Fig 11A, block 11A12
95 (also 102, 110, 117)	See similar allowable claims 53 and 51.

New Claim #	Exemplary support
96 (also 103, 111, 118)	See similar allowable claim 55.
97 (also 104, 112, 119)	See similar allowable claim 56.
98 (also 105, 113, 120)	See similar allowable claim 57.
100 (also 107, 122)	<p>The relationship between current mode switched mode power supplies driving a motor in voltage mode (Fig 8B) and general embodiment of the invention (Fig 8C) has been disclosed.</p> <p>The specification already clearly shows that the inductive element can be the winding of a transformer.</p> <p>The effect normally sought is to boost the current.</p>
109	<p>Independent claim 109 is related to Fig. 7A. This claim is related to a current mode buck converter using a low side switch for the first switch.</p> <p>Also related to implementation shown in Figs. 9A, 9L and 13.</p>
116	<p>See similar allowable claim 51. This claim is related to a current mode boost converter.</p> <p>Figs. 8A to 8C show the relationship between a switch mode power supply, a current mode switch mode power supply and the claimed invention.</p>

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PATENT

CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 415-576-0200.

Respectfully submitted,



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